

WHAT IS CLAIMED IS:

1. A piping connector comprising:

a socket in a tubular shape attached to an end of one  
5 pipe to be connected; and

a plug in a tubular shape attached to an end of other  
pipe, wherein:

the socket is provided with a pair of notched grooves  
at peripheral faces on both sides opposed to each other, the  
10 notched grooves are mounted with a stopper constituting a  
gate-like shape;

the plug is provided with a first taper portion, a  
flat portion and a second taper portion continuously from a  
front end side thereof in a sectional shape thereof along an  
15 axial direction thereof, a groove for fitting the stopper is  
formed at a ridge portion of the second taper portion; and

an inner periphery of the socket is arranged with a  
seal ring for sealing an interval between the inner periphery  
of the socket and an outer periphery of the plug in airtight  
20 and in a procedure of inserting the plug into the socket,  
after the seal ring reaches an R-like portion shifting to the  
flat portion from the first taper portion, the stopper is  
constituted to be brought into contact with the second taper  
portion.

2. The piping connector according to Claim 1,  
wherein

before the seal ring passes the R-like portion to ride  
on the flat portion, the stopper is constituted to be brought  
5 into contact with the second taper portion.

3. The piping connector according to Claim 1,  
wherein

a radius of curvature R of the R-like portion in a  
10 section of the plug along the axial direction falls in a range  
of 15 through 50mm.